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#### BEFORE THE ARIZONA CORPORATION COMMISSION

DOUG LITTLE CHAIRMAN BOB STUMP COMMISSIONER BOB BURNS COMMISSIONER

TOM FORESE COMMISSIONER

ANDY TOBIN COMMISSIONER

IN THE MATTER OF THE APPLICATION OF TUCSON ELECTRIC POWER COMPANY FOR APPROVAL OF ITS 2016 RENEWABLE ENERGY STANDARD AND TARIFF IMPLEMENTATION PLAN

**DOCKET NO. E-01933A-15-0239** 

RESPONSIVE TESTIMONY OF CHARLES J. CICCHETTI

1	Q.	Who are you?
2	A.	I am the same Charles J. Cicchetti, Ph.D. who previously filed testimony in this
3		proceeding.
4		
5	Q.	What is the purpose of this testimony?
6	A.	The Energy Freedom Coalition of America (EFCA) asked me to provide Reply
7		Testimony to the Direct Testimony filed on March 11, 2016 by Mr. Robert Gray
8		of the Utilities Division of the Arizona Corporation Commission (Staff), and Mr.
9		Lon Huber on behalf of the Residential Utility Consumer Office (RUCO). Both
10		experts address various aspects of Tucson Electric Power Company's (TEP) 2016
11		Renewable Energy Standard and Tariff (REST) Application to expand TEP's
12		Utility-Owned Residential Solar (TORS) program and to initiate its proposed
13		Utility-Owned Residential Community Solar (RCS) program.
14		
15	Repl	y to Mr. Gray of the Utilities Division
16	Q.	What are your areas of disagreement with respect to Mr. Gray of the Staff?
17	A.	First, I fully agree with some of his fundamental conclusions:
18 19 20 21		<ul> <li>"Staff does not believe that these programs are the most cost-effective means for TEP to address REST compliance requirements."</li> <li>"Staff believes TEP should primarily focus its efforts on no cost or least cost options."</li> </ul>
22 23 24 25		• "the Commission made indications that it preferred to not spend ratepayer dollars for a company to address compliance if it was not necessary to do so."
26		Nevertheless, I disagree with how Mr. Gray seems to resolve these matters in this
27		specific proceeding.
28 29	Q.	Do you believe Mr. Gray's testimony draws appropriate conclusions from his
30	Ų.	opposition to TORS Program expansion?
,0		opposition to towa trigism expension:

<sup>&</sup>lt;sup>1</sup> Direct Testimony of Robert Gray, page 4 lines 6-7.
<sup>2</sup> *Id.* page 5 lines 8-9.
<sup>3</sup> *Id.* page 4 lines 24-25.

No. Mr. Gray's views concerns regarding "expansion" of the TORS program are neither ambiguous nor tentative. Nevertheless, I believe he fails to draw the logical conclusions that stem from his basic opinion.

My interpretation of the Commission's REST rulemaking proceeding, which Mr. Gray noted, is that TEP should not expand its pilot TORS program because TEP can request a waiver at no cost to "other" ratepayers if the existing third-party market is permitted to grow and remain viable. Mr. Gray comes close to my conclusion, but I think he falls short, when he expresses that:

"...Staff upon further reflection does also have some concern with the use of a utility's tariffs to offer subsidized services that compete with third party service providers.... Absent fulfillment of the pilot program requirements and a demonstration that the rooftop program is cost competitive with a similar community solar program or other similarly situated resources, Staff does not plan to support an expansion of the TORS program in the future."

A.

Mr. Gray seemingly ignores the fact that no ratepayer money would be used to finance the DG solar systems that third parties provide. I agree that TEP has failed to perform a benefit cost analysis and has not organized an advisory committee. Regardless, the Commission's admonition that it prefers "no cost or least cost" compliance is more than a sufficient reason to reject the TORS program expansion, which uses ratepayer money—something is always more than nothing— and unreasonably (and anticompetitively) undermines third party competitors.

Mr. Gray ties any possible future Staff support of the TORS program to a cost comparison with the RCS program. This is not the alternative Staff should use for comparison purposes. Mr. Gray misses the point that neither the TORS program expansion nor the proposed RCS program should be allowed to go forward as rate base projects that TEP ratepayers are required to cross-subsidize.

<sup>&</sup>lt;sup>4</sup> *Id.* page 11 lines 20-26.

Finally, Mr. Gray explained in his testimony in this proceeding that the Commission has signaled it will allow TEP to comply with its renewable energy standard requirements by seeking a waiver. More specifically, Mr. Gray stated, "In the Commission's track and record proceeding...and the resulting REST rulemaking process...the Commission sent a clear indication that requesting a waiver of some portion of REST requirements was a viable option for a utility who would not otherwise be able to demonstrate compliance with the REST rules, with the added benefit that a waiver would not require any further ratepayer funding."<sup>5</sup>

A.

#### Q. Do you agree with Mr. Gray's views with respect to TEP's RCS proposal?

No. Mr. Gray discusses residential community solar at a conceptual level and ignores TEP's specific RCS proposal. For example, he explains that third parties could own community solar projects. While this observation is conceptually correct, this observation is not consistent with what TEP proposes: to enter the residential community solar market segment as a rate-based regulated utility that would offer its RCS customers all their electric usage for a flat-rate bundle charge, fixed for 10 years. These characteristics would make it virtually impossible for third parties to compete because the playing field is skewed in favor of TEP. As I discuss in detail below, the solution is to require TEP to enter the DG solar market segment through a separate non-utility affiliate. In this way, competition for residential community solar would proceed on a level playing field with all entrants having equal access to potential customers and subject to the same regulatory terms and market risks.

#### Q. Do you have additional concerns with Mr. Gray's testimony?

A. Yes. Mr. Gray recognizes that barriers to renters and other retail customers would

<sup>&</sup>lt;sup>5</sup> *Id.* page 4, lines 7-14.

<sup>&</sup>lt;sup>6</sup> *Id.* page 12, line 25-26.

1		continue under TEP's proposed RCS program. Nevertheless, he states TEP and
2		the Commission could address these matters in the current general rate proceeding
3		in Docket Number E-01933A-15-0322.8 However, if the Commission adopts a
4		separate affiliate requirement for TEP provision of residential community solar,
5		that outcome would eliminate the need to address the RCS program in TEP's
6		upcoming rate case and no need for a prudency evaluation or for approval of new
7		tariff riders.
8		
9	Q.	Does Mr. Gray make an attempt to address the ability of third-party
10		community solar developers to compete with TEP's RCS program?
11	A.	No. Mr. Gray merely claims that third party developers or co-operatives could
12		build community solar.9 He does not address how only TEP, and no third-party
13		community solar developer, could freeze current monthly utility payments, apply
14		for tariff terms or agreements across multiple customers, and freely coordinate
15		and integrate into TEP's grid and operating systems. These differences make the
16		opportunity for third-party developers of community solar systems nothing but an
17		abstract theory or concept. Finally, no third party community solar developer can
18		use cost of service regulation to finance its investments and to spread operations,
19		market, and utilization risks across all their retail customers.
20		Put simply, no community solar developer could reasonably compete with
21		TEP.
22		
23	Repl	y to Mr. Huber, testifying on behalf of RUCO
24		
25	Q.	Do you disagree with Mr. Huber?
26	A	Yes I do.
27		

<sup>&</sup>lt;sup>7</sup> *Id.* page 16, lines 12-15.

<sup>8</sup> *Id.* page 17, lines 3-5.

<sup>9</sup> *Id.* page 16, lines 20-22.

#### Q. Why do you disagree with Mr. Huber's testimony?

A. Mr. Huber states, "In general, RUCO is supportive of the filing," referring to TEP's 2016 REST filing.<sup>10</sup> He concludes that expanding the TORS program is largely a matter of "prudency. . .for the upcoming rate case." He adds that RUCO is not making any claims that TEPS' expanded or future rooftop solar investments are prudent and that RUCO will analyze "cost parity" in the TEP rate case. 12

I disagree with Mr. Huber's conclusions, including the suggestion that the issues raised by TEP's proposals should be kicked down the road to the next rate case. First, third-party developers are financed using non-utility money, and no other customers bear any direct costs or accept risks. Kicking any regulatory determination of cost parity between customer-owned and financed rooftop DG solar and utility-owned, all ratepayer financing and risk sharing to the next rate case would needlessly result in uncertainty, a loss of efficiency, and would undermine non-regulated competitors. The separate subsidiary requirement that I recommend would directly address these problems.

## Q. Are there any additional reasons why you disagree with Mr. Huber's conclusions?

A. Yes, the second basis for my disagreement with Mr. Huber is that he avers that TEP participation in rooftop solar under flat-rate bundled pricing simply represented "a diversity of business models." He also quibbles, in my opinion, that there was almost no regulated utility participation in the competitive rooftop solar market segment.<sup>13</sup> In making these unsupported assertions, he ignores all of the fundamental issues raised by TEP's proposals related to competitive foreclosure, ratepayer burden, cross-subsidization, and risk spreading to non-participants. Put differently, a mere "diversity of business models" misses the

<sup>&</sup>lt;sup>10</sup> Direct Testimony of Lon Huber, page 2, line 18.

<sup>&</sup>lt;sup>11</sup> *Id.* page 3, line 3.

<sup>&</sup>lt;sup>12</sup> *Id.* page 4, lines 6-11.

<sup>&</sup>lt;sup>13</sup> *Id.* page 6 lines 2-9.

stark reality that TEP's proposals almost certainly will eliminate the existing vibrant competitive market segment for DG solar.

A.

# Q. Do you agree with his "approaches" to explore "a third party-centric community solar model of equivalent size"?<sup>14</sup>

No. Mr. Huber once again misses the core point – that without requiring TEP's participation in DG solar through a separate subsidiary, no third party-centric model could possibly survive. Moreover, he once again kicks the details downstream, suggesting that the details can be resolved, "through a stakeholder process with a program filing for Commission consideration in the 2017 REST plan."<sup>15</sup> The fact that TEP has not formed the mandated Advisory Council makes this a very dubious approach. There are problems that cannot be cured simply by allowing third-party entry, as RUCO suggests, merely as an "additional" business model—along with TEP's rate-based offering.

Like Mr. Gray, Mr. Huber does not seem to consider how only TEP, and no third-party community solar developer, could freeze current monthly utility payments, apply for tariff terms or agreements across multiple customers, and freely coordinate and integrate into TEP's grid and operating systems. These differences make the opportunity for third-party developers of community solar systems nothing but an abstract theory or concept. Finally, Mr. Huber does not seem to recognize that no third-party community solar developer can use cost-of-service regulation to finance its investments and to spread operations, market, and utilization risks across all their retail customers.

# Q. How can these differences be addressed, assuming the Commission seeks to encourage community based solar?

A. Competition should be on a level-playing field. As noted above, this means the Commission should require TEP to form a separate non-utility affiliate for

<sup>&</sup>lt;sup>14</sup> *Id.* page 6 lines 12-13.

<sup>&</sup>lt;sup>15</sup> *Id.* page 6 lines 13-14.

community solar. I would also require such a non-utility affiliate for any TORS-
type rooftop solar installations. Forming a separate non-utility affiliate would
address simultaneously the ratepayer burden, cross-subsidization, and prudency
issues. It would render moot the question of the appropriate tariff structures for
the rooftop and proposed community Riders. If the Commission ordered the
separate subsidiary outcome in this proceeding, there would be no need to address
the TORs and RCS programs in TEP's rate case. TEP would need to adhere to
Commission-approved codes of conduct, including a competitive code of conduct
focusing, for example, on branding and access to usage profile and grid
information, as well as requiring that the transfer of goods and services from the
utility to its subsidiary be at the greater of fully allocated costs or fair market
value.

# Q. Do you agree with Mr. Huber's conclusions with respect to tariffs and regulations for any third party community solar developer?

A. No. I think the same rules and tariff principles should apply to all competitors in any nascent community solar market segment. Mr. Huber explains that RUCO is not pushing a specific model, and specifically RUCO is not advocating support for virtual full retail net metering. <sup>16</sup> The necessary condition is that all competitors should be treated the same.

The best way to ensure this outcome is to require that if TEP participates in this market segment, it should do so through a non-regulated affiliate under affiliated interest regulations and constraints, and with no preferential treatment by TEP.<sup>17</sup> The affiliate's focus should be the design and offering of products predicated on the fact that distributed solar, including community based solar that

<sup>&</sup>lt;sup>16</sup> *Id.* page 6 lines 17-20.

<sup>&</sup>lt;sup>17</sup> For example, is my understanding that TEP (through its parent holding company) has established a separate affiliate, Southwest Energy Solutions, Inc. to provide competitive services, e.g., back-up generation services. <a href="http://www.swenergysolutions.com/solutions\_generator.php">http://www.swenergysolutions.com/solutions\_generator.php</a>. This separation is consistent with the Commission's separate affiliate requirement for competitive services, R14-2-1615 (B), and has been specifically approved with respect to TEP and its affiliates in Commission Order 75033, April 23, 2015.

1		TEP proposes to offer, should not be part of any utility's regulated monopoly.
2		For these reasons, the Commission should consider a stakeholder process
3		that establishes the rules and mechanisms for both third parties and any non-utility
4		TEP affiliate that seek to provide DG community solar in TEP's service territory.
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6	Q.	Does this complete your reply testimony?
7	A.	Yes.
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#### BEFORE THE ARIZONA CORPORATION COMMISSION

DOUG LITTLE CHAIRMAN BOB STUMP COMMISSIONER BOB BURNS COMMISSIONER

TOM FORESE COMMISSIONER

ANDY TOBIN COMMISSIONER

IN THE MATTER OF THE APPLICATION OF TUCSON ELECTRIC POWER COMPANY FOR APPROVAL OF ITS 2016 RENEWABLE ENERGY STANDARD AND TARIFF IMPLEMENTATION PLAN

**DOCKET NO. E-01933A-15-0239** 

RESPONSIVE TESTIMONY OF DAVID W. DERAMUS PHD

1	TABLE OF CONTENTS
2	RESPONSIVE TESTIMONY OF DAVID W. DERAMUS PHD1
3	I. Purpose of Testimony
4	II. Summary2
5 6	III. Staff's Concern Regarding Utility Subsidized Services Competing with Third Party Providers Applies to the RCS As Well As the TORS Programs
7 8	IV. The TORS and RCS Programs Do Not Represent Beneficial Diversification of Business  Models
9 10	V. Recommendations by Staff and RUCO to Open the RCS Program to Third Party Participation Would Not Resolve Anticompetitive Effects of the RCS Proposal
11 12 13	VI. Requiring TEP to Participate in the Residential Solar DG Program Only Through a Separate Affiliate, While Allowing Third-Party Access in Community Solar, Would Directly Address Concerns of Staff and RUCO
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15	
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1	RESPONSIVE TESTIMONY
2	OF
3	DAVID W. DERAMUS, PHD
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5	Q. PLEASE STATE YOUR NAME, TITLE, AND BUSINESS ADDRESS.
6	A. My name is David W. DeRamus. I am a Partner with Bates White, LLC. My business
7	address is 1300 Eye Street N.W., Suite 600, Washington, DC 20005.
8	Q. HAVE YOU SUBMITTED TESTIMONY PREVIOUSLY IN THIS DOCKET?
9	A. Yes. I filed direct testimony in this docket on behalf of the Energy Freedom Coalition of
10	America ("EFCA"), addressing the potential anticompetitive effects of proposals by Tucson
11	Electric Power ("TEP") to expand the TEP-Owned Residential Solar ("TORS") program
12	and to create a utility-owned Residential Community Solar ("RCS") program. This
13	responsive testimony is also sponsored by EFCA.
14	I. <u>Purpose of Testimony</u>
15	Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?
16	A. I have been asked to respond to the direct testimony of Robert G. Gray, submitted on behalf
17	of the Utilities Division ("Staff") of the Arizona Corporation Commission ("ACC" or
18	"Commission"), and the direct testimony of Lon Huber, submitted on behalf of the
19	Residential Utility Consumer Office ("RUCO"), as they relate to the potential
20	anticompetitive impacts of TEP's proposed TORS and RCS programs.
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#### II. Summary

- Q. PLEASE SUMMARIZE YOUR RESPONSES TO THE TESTIMONIES OF MR. GRAY AND MR. HUBER.
- **A.** In summary, my responses are the following:
- I agree with the recommendation of Staff, as presented by Mr. Gray, that the
  Commission reject the proposed expansion of the TORS program, and I share Staff's
  concern over TEP offering a service subsidized through its regulated tariff that would
  compete with third party suppliers already active in the residential rooftop market
  segment.
- I disagree with Staff's recommendation to approve TEP's proposed RCS program in a general rate proceeding. Staff's recommendation that the program be open to non-utility owned community solar providers does not address the anticompetitive effects that TEP's utility-owned RCS program would create.
- 3. Similarly, I disagree with the position of RUCO, as presented in Mr. Huber's direct testimony, that the only problem with TEP's RCS proposal is that it does not allow for entry of third-party providers of community solar. The central problem with TEP's RCS proposal is the inherent cross-subsidization it creates and the chilling effect it would have on competitive residential solar offerings already available in TEP's service territory.
- 4. The legitimate concerns of Staff and RUCO regarding TEP's proposed utility-owned solar distributed generation ("DG") programs would be resolved fully by requiring TEP to create a distinct business affiliate, separate from its regulated monopoly franchise, in order to offer residential solar DG services. TEP should further be required to adhere to a Commission-approved code of conduct to ensure that the TEP affiliate does not benefit from any business advantages through its relationship with TEP that are not also equally available to third-party providers.

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III.

Staff's Concern Regarding Utility Subsidized Services Competing with Third Party

Providers Applies to the RCS As Well As the TORS Programs

O. DO YOU AGREE WITH STAFF'S REASONS FOR RECOMMENDING THAT

TEP'S PROPOSED EXPANSION OF THE TORS PROGRAM BE REJECTED?

A. Yes, although Staff's expressed concern about the potential anticompetitive impact of the

TORS program does not fully address the substantial harm presented by the cross-

subsidization and the exclusionary effects associated with TEP's proposal. I agree with

Staff that neither expansion of the TORS program nor creation of the utility-owned RCS

program is justified by a need for TEP to meet its residential DG requirement under the

significant anticompetitive potential of the TORS program, when he states that Staff "does

also have some concern with the use of a utility's tariffs to offer subsidized services that

compete with third party service providers." As I discuss in my direct testimony in this

docket, there are very substantial anticompetitive implications of a monopoly utility forcing

Renewable Energy Standard and Tariff rules.

Q. TO WHAT EXTENT DOES MR. GRAY ADDRESS THE ANTICOMPETITIVE ASPECTS OF TEP'S PROPOSALS?

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A. Mr. Gray touches only briefly in his testimony on the more fundamental problem of the

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itself into a market segment that is already served competitively, as is the case with residential rooftop solar in TEP's service territory. Doing so would allow TEP to use the

advantages of its utility franchise to foreclose competitors from providing residential DG

services, and TEP would thereby eliminate third-party competition in this market segment.

<sup>&</sup>lt;sup>1</sup> Gray Direct Testimony, page 11, lines 20-21.

The combination of putting the TORS rooftop solar assets into TEP's rate base and offering customers fixed pricing over 25 years would compel TEP's captive ratepayers to effectively guarantee TEP's cost recovery and its regulated return on capital investment, and to bear the associated business risks in full. This type of utility cross-subsidization is at the core of regulatory concerns over monopoly utilities providing products and services in competitive markets, to the disadvantage of third-party businesses that cannot force captive ratepayers to shoulder such business risk. As I discuss in my direct testimony, TEP would retain other anticompetitive advantages associated with its monopoly position, including privileged access to information about the distribution grid and about potential customers that would artificially benefit the utility's entry into otherwise competitive activities, and disadvantage third-party businesses. TEP's monopoly advantages will discourage market entry by other competitors and ultimately drive third-party businesses out of the DG solar market segment entirely, depriving customers of the benefits of competition: namely, increased choice, innovative products, improved service quality, and lower prices.

### Q. PLEASE EXPLAIN YOUR DISAGREEMENT WITH STAFF'S RECOMMENDATION TO APPROVE TEP'S RCS PROPOSAL.

**A.** While I generally concur with the Staff opinion, as expressed in Mr. Gray's testimony, that community solar can offer important benefits, such as DG access for residential customers unable to undertake rooftop solar, and potential economies of scale in construction and operation, I disagree that the proposed RCS program is an appropriate means for pursuing such benefits. Indeed, the RCS program would not expand access, since it is explicitly aimed only at customers currently eligible for net-metering.

More importantly, the RCS program would have the same types of anticompetitive effects as the TORS program. By putting RCS assets into its rate base, providing long-term fixed pricing, and leveraging substantial monopoly utility advantages in information and customer

access, TEP would undermine the competitive rooftop solar market segment, stifle 1 investment and innovation, and ultimately wall off the residential solar market segment as 2 another exclusive domain of the regulated monopoly utility. 3 IV. The TORS and RCS Programs Do Not Represent Beneficial Diversification of Business 4 5 Models O. DO YOU AGREE WITH RUCO THAT TORS AND RCS CAN OFFER BUSINESS 6 MODEL DIVERSITY THAT BENEFITS CUSTOMERS? 7 A. No, I do not. As described in Mr. Huber's direct testimony, RUCO supported the TORS 8 pilot in part because RUCO believed it provided increased diversity of business models in 9 the residential rooftop solar market segment, which would benefit customers.<sup>2</sup> I strongly 10 disagree that having a regulated monopoly utility enter an otherwise competitive market 11

segment and offer a competing service that exploits unique utility franchise advantages and is cross-subsidized by captive customers represents a beneficial diversification of business models. Quite the contrary: as summarized above, and as detailed in my direct testimony, both the TORS and RCS programs would have substantial anticompetitive impacts that would stifle competition and ultimately dismantle the existing competitive residential solar market segment in TEP's service territory.

I agree that customers can benefit from products and services offered through a diversity of business models, and in my direct testimony I point to such diversification as being among the valuable innovations developed by the competitive rooftop solar industry. The essential distinction is that such innovation and diversification has occurred under the discipline of a competitive market segment where unregulated businesses and their direct customers take

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<sup>&</sup>lt;sup>2</sup> Huber Direct Testimony, page 6, lines 5-8.

on the associated investment and business risk. This is in stark contrast to what would occur with the TORS and RCS programs, under which all captive ratepayers would be forced to effectively guarantee the utility's program costs and shoulder the associated business risk, to the disadvantage of third-party competitors. Far from expanding the diversity of business models serving customers, TEP's proposals would ultimately eliminate the valuable diversity that a competitive market segment has provided to date.

V. Recommendations by Staff and RUCO to Open the RCS Program to Third Party Participation Would Not Resolve Anticompetitive Effects of the RCS Proposal

### Q. WOULD OPENING RESIDENTIAL COMMUNITY SOLAR TO PARTICIPATION BY THIRD PARTIES RESOLVE THE ANTICOMPETITIVE EFFECTS OF RCS?

A. No, it would not. Both Staff and RUCO recommend opening RCS to third-party participation, but such proposals do not address the underlying anticompetitive effects of utility ownership of solar DG. As described in Mr. Gray's direct testimony, Staff intends to recommend in TEP's general rate case that TEP solicit non-utility community solar in an amount at least equal to the amount of utility-owned community solar TEP pursues or, alternatively, that TEP propose another method to "meaningfully include non-utility owned community solar projects in its future community solar efforts." Similarly, RUCO proposes "exploring a third party-centric community solar model of equivalent size [to TEP's program]."

Both the Staff and RUCO proposals miss the essential point that it is the utility-ownership construct of the RCS program that is the problem, because it would establish substantial

<sup>&</sup>lt;sup>3</sup> Gray Direct Testimony, page 17, lines 10-20.

<sup>&</sup>lt;sup>4</sup> Huber Direct Testimony, page 6, lines 12-13.

anticompetitive advantages for TEP in the residential solar DG market segment, and would undermine an existing competitive marketplace to the detriment of customers. For this reason, any attempt to open RCS to third-party participation would be doomed to fail because TEP's anticompetitive advantages would ensure its dominance in the DG solar market segment. As I explained in my direct testimony and describe more fully below, the appropriate and effective solution to the anticompetitive effects of the RCS program, and to those of the TORS program as well, is to require that any TEP involvement in the residential solar DG market segment be through creation of a distinct affiliated company that participates on equal terms with third-party providers, with appropriate safeguards against cross-subsidization and other preferential interaction with TEP's regulated business.

VI. Requiring TEP to Participate in the Residential Solar DG Program Only Through a
Separate Affiliate, While Allowing Third-Party Access in Community Solar, Would
Directly Address Concerns of Staff and RUCO

### Q. HOW WOULD CREATION OF A SEPARATE TEP AFFILIATE RESOLVE ANTICOMPETITIVE CONCERNS WITH THE TORS AND RCS PROGRAMS?

A. Staff and RUCO have recognized that third-party participation in residential and community solar DG programs is good for customers. Yet both Staff and RUCO support utility ownership and provision of solar DG through TEP's RCS program, which would inflict the same anticompetitive harms as the TORS program. While Staff and RUCO propose that community solar be opened in some fashion to third-party participation, this is, at best, a necessary condition for allowing competition, and is by no means sufficient to ensure that the anticompetitive effects of utility ownership do not drive third-parties entirely out of the solar DG market segment in TEP's service territory.

The problem of utility ownership of community solar DG, particularly under the RCS proposal, with full rate-basing of facilities investment and long-term flat pricing, is that it is a "business model" that is unavailable to any market participant other than the regulated

utility. At its core is the traditional monopoly utility model that provokes regulatory 1 2 3 4 5 6 7

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concerns whenever utility activities have the potential to impinge upon existing competitive markets or restrict development and growth of such markets. As I addressed in my direct testimony, allowing third-party access is only an initial precondition for ensuring against monopoly foreclosure. Equally important is that the monopoly utility be prevented from competing unfairly by leveraging its inherent advantages. The most reliable way to do this is to require that a utility undertake competitive market activities only through a separate affiliate and subject to effective restrictions on affiliate abuse and anticompetitive conduct.

### Q. WOULD REQUIRING TEP TO OFFER DG SOLAR THROUGH A SEPARATE SUBSIDIARY BE SUFFICIENT TO PROTECT COMPETITION IN THE DG SOLAR MARKET SEGMENT GOING FORWARD?

A. Requiring TEP to establish a separate affiliate through which to pursue residential and community solar DG, with appropriate conditions and mechanisms to allow for third party participation on an equal basis, would resolve the stated concerns of Staff and RUCO and preserve competition going forward if implemented effectively with a code of conduct as discussed below. It would prevent harm to competition in the existing residential solar DG market segment; it would eliminate the burden imposed on ratepayers by putting solar DG costs into TEP's rate base; it would allow for entry on equal terms by third-party businesses into the community solar market segment; and it would potentially expand, rather than narrow, the business models under which solar DG is currently provided.

### Q. WOULD THIS APPROACH OBVIATE THE NEED TO TAKE THIS ISSUE UP IN A SUBSEQUENT RATE CASE?

A. Yes. An additional benefit of requiring TEP to pursue solar DG only through a separate affiliate is that it would eliminate the need to address the TORS and RCS programs in TEP's

R14-2-1616(B).

upcoming rate case. There would be no need for a prudency evaluation or for approval of new tariff riders.

## Q. WHY IS A CODE OF CONDUCT WITH RESPECT TO TEP'S COMPETITIVE ACTIVITIES NECESSARY?

A. Requiring TEP to establish a separate affiliate through which to pursue competitive solar

DG would eliminate the most obvious source of anticompetitive cross-subsidy, which occurs when assets used for competitive services are placed in a utility's rate base, but a code of conduct is still necessary to prevent TEP from using its inherent monopoly utility advantages to artificially benefit its affiliate and thereby suppress third-party competition.

At a minimum, an effective code of conduct would need to ensure that the TEP affiliate does not have preferential access to critical competitive information such as customer usage data, customer premise characteristics, physical and operational details about the distribution grid, etc. TEP must be required to provide any such information, as well as any services performed by TEP through its regulated business, to its affiliate and to third party market participants on equal terms. A code of conduct should also prevent a TEP affiliate benefiting from TEP branding, from preferential marketing to customers via bill inserts and other promotions supported by TEP's regulated business, and should establish rules for transparent accounting of all transactions between TEP and its affiliate. The Commission has identified such issues in its rules that require Commission-approved Codes of Conduct to prevent anticompetitive activities when utility affiliates provide competitive services,

### Q. WHAT MECHANISMS COULD BE USED TO FACILITATE COMPETITIVE ACCESS IN COMMUNITY SOLAR DG?

**A.** Mr. Huber has outlined some mechanisms that could be implemented to allow for thirdparty provision of community DG solar. One is "virtual net metering", which would mimic

the direct net metering and associated tariff treatment currently applied to eligible rooftop solar installations. Others include a "sleeving" arrangement, in which TEP acts as an intermediary between the community solar provider -- including third parties and the TEP affiliate -- and the retail customer; and distribution wheeling, under which TEP would provide distribution access to third parties through a separate tariff. I do not propose that any particular approach be employed, and agree with Mr. Huber that a stakeholder process should be pursued to develop an appropriate mechanism. However, it is imperative that whatever approach is used to allow for third-party community DG solar offerings provide competitively equivalent access to third parties and any TEP affiliate.

#### Q. DOES THIS CONCLUDE YOUR TESTIMONY?

A. Yes.

10